

# Hassan Dehghanpour

## List of Publications by Year in descending order

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85  
papers

2,701  
citations

185998

28  
h-index

205818

48  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1235  
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental and field case study to evaluate the effects of shut-in on well performance. Journal of Petroleum Science and Engineering, 2022, 208, 109318.	2.1	4
2	Advances in flowback analysis: fracturing water production obeys a simple decline model. , 2022, , 299-321.		0
3	The effects of kerogen maturity on pore structure and wettability of organic-rich calcareous shales. Journal of Molecular Liquids, 2022, 362, 119577.	2.3	8
4	A Model and Measurement Technique for Liquid Permeability of Tight Porous Media Based on the Steady-State Method. Energy & Fuels, 2022, 36, 6860-6867.	2.5	8
5	Effects of Electro-Oxidation Process on Tight-Rock Wettability and Imbibition Oil Recovery. Energy & Fuels, 2022, 36, 6771-6784.	2.5	2
6	A Theoretical Explanation for Wettability Alteration by Adding Nanoparticles in Oil-Water-Tight Rock Systems. Energy & Fuels, 2021, 35, 7787-7798.	2.5	14
7	Liquid imbibition in tight rocks: The role of disjoining pressure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127037.	2.3	7
8	Evaluating porous media wettability from changes in Helmholtz free energy using spontaneous imbibition profiles. Advances in Water Resources, 2021, 157, 104038.	1.7	9
9	A Simulation Study on Solvent-Aided Process using C3 and C4 in Clearwater Oil-Sand Formation. Journal of Petroleum Science and Engineering, 2020, 184, 106267.	2.1	4
10	Measuring diffusion coefficients of gaseous propane in heavy oil at elevated temperatures. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2633-2645.	2.0	20
11	A Laboratory Protocol for Evaluating Microemulsions for Enhanced Oil Recovery while Fracturing. , 2020, , .		0
12	Quantifying Oil-Recovery Mechanisms During Natural-Gas Huff n Puff Experiments on Ultratight Core Plugs. , 2020, , .		1
13	Wettability of Calcareous Shales from the East Duvernay Basin: The Role of Natural Fractures, Thermal Maturity, and Organic-Pore Connectivity. , 2020, , .		0
14	Coupled Versus Stratified Flow of Water and Hydrocarbon During Flowback and Post-flowback Processes. , 2020, , .		2
15	Advances in Understanding Relative Permeability Shifts by Imbibition of Surfactant Solutions into Tight Plugs. , 2020, , .		1
16	Enhancing Imbibition Oil Recovery from Tight Rocks by Mixing Nonionic Surfactants. Energy & Fuels, 2020, 34, 12301-12313.	2.5	10
17	Quantification of convective and diffusive transport during CO2 dissolution in oil: A numerical and analytical study. Physics of Fluids, 2020, 32, 085110.	1.6	32
18	Post-flowback production data suggest oil drainage from a limited stimulated reservoir volume: An Eagle Ford shale-oil case. International Journal of Coal Geology, 2020, 224, 103469.	1.9	14

#	ARTICLE	IF	CITATIONS
19	The use of flowback data for estimating dynamic fracture volume and its correlation with completion-design parameters: Eagle Ford cases. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107584.	2.1	12
20	Estimating compressibility of complex fracture networks in unconventional reservoirs. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 127, 104186.	2.6	11
21	Effect of kerogen maturity on organic shale wettability: A Duvernay case study. <i>Marine and Petroleum Geology</i> , 2019, 110, 483-496.	1.5	32
22	Produced Flowback Salts vs. Induced-Fracture Interface: A Field and Laboratory Study. <i>SPE Journal</i> , 2019, 24, 1309-1321.	1.7	9
23	Dynamic Fracture Volume Estimation using Flowback Data Analysis and its Correlation to Completion-Design Parameters. , 2019, , .		3
24	Evaluating Fracture Volume Loss During Flowback and Its Relationship to Choke Size: Fastback vs. Slowback. <i>SPE Production and Operations</i> , 2019, 34, 615-624.	0.4	10
25	Imbibition Oil Recovery from the Montney Core Plugs: The Interplay of Wettability, Osmotic Potential and Microemulsion Effects. , 2019, , .		9
26	An Experimental and Modeling Study on Interactions of Cold Lake Bitumen with CO <sub>2</sub> , C <sub>3</sub> , and C <sub>4</sub> at High Temperatures. <i>Energy &amp; Fuels</i> , 2019, 33, 3957-3969.	2.5	14
27	Tight Rock Wettability and Its Relationship With Petrophysical Properties. , 2019, , 155-171.		0
28	Advances in Flowback Data Analysis for Estimating Average Fracture Compressibility: North American Case Studies. , 2019, , .		0
29	Estimating Residual Fracture Pore Volume by Analyzing Post-Flowback Water Production: An Eagle Ford Black-Oil Case. , 2019, , .		3
30	Pore Size Distribution of Unconventional Rocks with Dual-Wet Pore Network: A Sequential Spontaneous and Forced Imbibition Technique. , 2019, , .		2
31	Modelling imbibition data for determining size distribution of organic and inorganic pores in unconventional rocks. <i>International Journal of Coal Geology</i> , 2019, 201, 26-43.	1.9	33
32	Imbibition oil recovery from tight rocks with dual-wettability behavior. <i>Journal of Petroleum Science and Engineering</i> , 2018, 167, 180-191.	2.1	30
33	A modified model for spontaneous imbibition of wetting phase into fractal porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 543, 64-75.	2.3	56
34	Enhancing Oil Recovery by Adding Surfactants in Fracturing Water: A Montney Case Study. , 2018, , .		22
35	Effects of Dissolved Oxygen on Water Imbibition in Gas Shales. <i>Energy &amp; Fuels</i> , 2018, 32, 4695-4704.	2.5	28
36	Evaluating Fracture Volume Loss during Flowback and its Relationship to Choke Size: Fastback versus Slowback. , 2018, , .		4

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37	Wetting Behavior of Tight Rocks: From Core Scale to Pore Scale. <i>Water Resources Research</i> , 2018, 54, 9162-9186.	1.7	18
38	Evaluation of Imbibition Oil Recovery in the Duvernay Formation. <i>SPE Reservoir Evaluation and Engineering</i> , 2018, 21, 257-272.	1.1	27
39	An Experimental Study of Nonequilibrium Carbon Dioxide/Oil Interactions. <i>SPE Journal</i> , 2018, 23, 1768-1783.	1.7	19
40	Experimental Investigation for Microscale Stimulation of Shales By Water Imbibition During the Shut-in Periods. , 2017, , .		17
41	Rock-Fluid Interactions in the Duvernay Formation: Measurement of Wettability and Imbibition Oil Recovery. , 2017, , .		9
42	Fracture Network Characterization by Analyzing Flowback Salts: Scale-Up of Experimental Data. , 2017, , .		1
43	Estimating Effective Fracture Pore Volume From Flowback Data and Evaluating Its Relationship to Design Parameters of Multistage-Fracture Completion. <i>SPE Production and Operations</i> , 2017, 32, 423-439.	0.4	30
44	Tight rock wettability and its relationship to other petrophysical properties: A Montney case study. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 381-390.	1.1	40
45	Water sorption behaviour of gas shales: I. Role of clays. <i>International Journal of Coal Geology</i> , 2017, 179, 130-138.	1.9	108
46	Water sorption behaviour of gas shales: II. Pore size distribution. <i>International Journal of Coal Geology</i> , 2017, 179, 187-195.	1.9	99
47	Experimental investigation of CO <sub>2</sub> -oil interactions in tight rocks: A Montney case study. <i>Fuel</i> , 2017, 203, 853-867.	3.4	59
48	A molecular dynamics explanation for fast imbibition of oil in organic tight rocks. <i>Fuel</i> , 2017, 190, 409-419.	3.4	32
49	Effectiveness and time variation of induced fracture volume: Lessons from water flowback analysis. <i>Fuel</i> , 2017, 210, 844-858.	3.4	27
50	Organic shale wettability and its relationship to other petrophysical properties: A Duvernay case study. <i>International Journal of Coal Geology</i> , 2017, 169, 74-91.	1.9	123
51	Investigating Well Interference in a Multi-Well Pad by Combined Flowback and Tracer Analysis. , 2017, , .		1
52	Complementary Surveillance Microseismic and Flowback Data Analysis: An Approach to Evaluate Complex Fracture Networks. , 2016, , .		6
53	Laboratory and field analysis of flowback water from gas shales. <i>Journal of Unconventional Oil and Gas Resources</i> , 2016, 14, 113-127.	3.5	88
54	Numerical investigation of limitations and assumptions of analytical transient flow models in tight oil reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 30, 471-486.	2.1	11

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55	Advances in Understanding Wettability of Tight Oil Formations: A Montney Case Study. SPE Reservoir Evaluation and Engineering, 2016, 19, 583-603.	1.1	46
56	A Theory for Relative Permeability of Unconventional Rocks With Dual-Wettability Pore Network. SPE Journal, 2016, 21, 1970-1980.	1.7	68
57	Fracture Characterization Using Flowback Salt-Concentration Transient. SPE Journal, 2016, 21, 233-244.	1.7	75
58	Capturing the effects of secondary fractures on production data using flow regime equations and specialised plots: An uncertainty analysis approach. Journal of Petroleum Science and Engineering, 2016, 138, 201-217.	2.1	2
59	A flowing material balance equation for two-phase flowback analysis. Journal of Petroleum Science and Engineering, 2016, 142, 170-185.	2.1	48
60	The fate of fracturing water: A field and simulation study. Fuel, 2016, 163, 282-294.	3.4	223
61	Advances in Flowback Chemical Analysis of Gas Shales. , 2015, , .		6
62	Chemical Analysis of Flowback Water and Downhole Gas Shale Samples. , 2015, , .		4
63	Flowback Chemical Analysis: An Interplay of Shale-Water Interactions. , 2015, , .		2
64	Wettability of the Montney Tight Gas Formation. SPE Reservoir Evaluation and Engineering, 2015, 18, 417-431.	1.1	75
65	A complementary approach for uncertainty reduction in post-flowback production data analysis. Journal of Natural Gas Science and Engineering, 2015, 27, 1074-1091.	2.1	20
66	Impact of rock fabric on water imbibition and salt diffusion in gas shales. International Journal of Coal Geology, 2015, 138, 55-67.	1.9	203
67	Pseudo-steady state analysis in fractured tight oil reservoirs. Journal of Petroleum Science and Engineering, 2015, 129, 40-47.	2.1	12
68	A comparative investigation of shale wettability: The significance of pore connectivity. Journal of Natural Gas Science and Engineering, 2015, 27, 1174-1188.	2.1	117
69	Water Loss Versus Soaking Time: Spontaneous Imbibition in Tight Rocks. Energy Technology, 2014, 2, 1033-1039.	1.8	59
70	An approach to model three-phase flow coupling during steam chamber rise. Canadian Journal of Chemical Engineering, 2014, 92, 1100-1112.	0.9	14
71	Displacement of water by gas in propped fractures: Combined effects of gravity, surface tension, and wettability. Journal of Unconventional Oil and Gas Resources, 2014, 5, 10-21.	3.5	53
72	Modelling flowback as a transient two-phase depletion process. Journal of Natural Gas Science and Engineering, 2014, 19, 258-278.	2.1	56

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73	A comparative study of flowback rate and pressure transient behavior in multifractured horizontal wells completed in tight gas and oil reservoirs. Journal of Natural Gas Science and Engineering, 2014, 17, 82-93.	2.1	122
74	A model for simultaneous matrix depletion into natural and hydraulic fracture networks. Journal of Natural Gas Science and Engineering, 2014, 16, 57-69.	2.1	86
75	A Workflow for Flowback Data Analysis – Creating Value out of Chaos. , 2014, , .		12
76	Advances in Understanding Liquid Flow in Gas Shales. , 2014, , .		5
77	Analyzing the production data of fractured horizontal wells by a linear triple porosity model: Development of analysis equations. Journal of Petroleum Science and Engineering, 2013, 112, 117-128.	2.1	32
78	Flowback Volumetric and Chemical Analysis for Evaluating Load Recovery and Its Impact on Early-Time Production. , 2013, , .		61
79	Modeling Three-Phase Flow During Steam Chamber Rise-Impact of Water Drainage on Oil Production Rate. , 2013, , .		4
80	A Comparative Study of Transient and Steady-State Three-Phase Oil Permeability. Journal of Canadian Petroleum Technology, 2013, 52, 54-63.	2.3	12
81	Flowback Analysis for Fracture Characterization. , 2012, , .		47
82	Unstable Displacement: A Missing Factor in Fracturing Fluid Recovery. , 2012, , .		22
83	New Advances in Production Data Analysis of Hydraulically Fractured Tight Reservoirs. , 2012, , .		8
84	A Triple Porosity Model for Shale Gas Reservoirs. , 2011, , .		46
85	Effect of Electrostatic Interactions on Water Uptake of Gas Shales: The Interplay of Solution Ionic Strength and Electrostatic Double Layer. Energy & Fuels, 0, , .	2.5	24